
TO: CHAIR AND MEMBERS
FINANCIAL MANAGEMENT COMMITTEE

DATE: 2017 April 20

FROM: DIRECTOR ENGINEERING

FILE: 32000-05

SUBJECT: 2017 ENGINEERING CAPITAL INFRASTRUCTURE BYLAW FUNDING
REQUEST APRIL

PURPOSE: To request Council approval and funding for multi-year Engineering capital infrastructure improvement projects.

RECOMMENDATIONS:

1. **THAT** Financial Management Committee recommend Council approve the capital expenditure of \$13,436,150 for infrastructure capital improvement projects, as outlined in this report.
2. **THAT** Financial Management Committee recommend Council authorize the City Solicitor to bring forward a Capital Reserves bylaw in the amount of \$8,961,050 (inclusive of GST of \$418,740.65), and authorize staff to draw from the Sanitary Sewer Capital Fund the amount of \$3,448,239 (inclusive of GST of \$153,939.25) and the Waterworks Utility Capital Fund the amount of \$1,235,977 (inclusive of GST of \$55,177.57).

REPORT

The 2017 – 2021 Provisional Capital Financial Plan provides funding for various multi-year capital improvement projects. In order to proceed with the award of contracts for design and construction, funding approval is requested for the projects listed below. Sufficient Capital Reserves are available to complete these works.

1.0 2017 CAPITAL PROGRAM

For capital programs that have plan in multiple years, the funding for all years is being raised here in order to be able to award upcoming contracts for construction.

1.1 Willingdon Linear Park **\$500,000**

EMA.3000 MRN \$500,000

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The Willingdon Linear Park will provide a link to the Brentwood Town Centre with the Hastings neighbourhood and community amenities. At a high-level, the project will include an urban trail, landscaping, street furniture, pedestrian lighting, and public art, along with infrastructure upgrades including watermain replacement, road and sidewalk rehabilitation, three new pedestrian signals, and a new left turn bay at the intersection of Willingdon and Parker.

The project will be phased over three years, with design components and initial utility construction in 2016, the major components of road, trail, and intersection upgrades in 2017, and completion of landscaping and public art installation in 2018.

This is the second and final request for funding for this project and relates to road rehabilitation. The initial request was made in January.

1.2 Integrated Stormwater Management Plan \$6,030,850

EJA.3020	Watermain Renewals	\$ 289,800
ELA.3020	Culvert Insp'n & Rehab	522,000
ELA.3020	Storm Sewers	839,000
ELA.3020	Storm Water Mgmt	198,200
ELA.3020	Storm Water Mgmt (culvert rehab)	2,081,850
EMC.3020	LRN	2,040,000
EMC.3020	Sidewalk & Urban Trail	<u>60,000</u>
		\$ 6,030,850

This project includes drainage and environmental works for the implementation of the City's Integrated Stormwater Management Plans and improvement of an existing raingarden. ISMP's for Eagle Creek, Stoney Creek, Kaymar Creek and Byrne Creek are addressed in this project. The works vary from installation of detention ponds and oil/grit separators to culvert rehabilitation (Grey Creek \$1.113M and Kingsland Culvert \$.969M) and erosion mitigation in a creek. Completion of these projects will help alleviate erosion and flooding concerns, enhance aquatic habitat and fish passage, and remediate existing and/or potential stormwater quality problems. The road portion of this project will provide full width rehabilitation for all streets that had storm sewer work from 2016 and 2017 and include work at the following locations:

Street	From	To
Greenall Av	Marine Way	Marine Dr
Keith St	Greenall Av	Roseberry Av
Greenall Av	Keith St intersection	
Roseberry Av	Marine Way	Marine Dr
Joffre Av	Keith St	Marine Way

1.3 Beta Sanitary Pump Stations \$1,871,300

EKA.3057	Beta Sanitary Pump Station	1,871,300
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Upgrades to the existing Beta Pump Station facility are required to accommodate anticipated increases in peak sanitary flows resulting from growth and re-development within the (southern) Brentwood Town Centre area. This is the final funding request with several previous funding requests totaling \$2.85M.

Developer funding has been collected and will continue to be collected to cover the growth-related portion of this pump station replacement (2017 contribution = \$325/ residential unit and \$35/ 100 sq. ft. of industrial, institutional, or commercial floor area.)

1.4 Douglas Sanitary Pump Station Replacement \$161,000

EKB.3017 Douglas Pump Station \$161,000

Replacement of the existing Douglas Pump Station facility is required to accommodate anticipated increases in peak sanitary flows resulting from growth and re-development within the local service area, and to reduce risk of flooding of Still Creek. The project is initiated so that construction can be coordinated with development activity at this location (2590 Douglas Road).

1.5 Riverside Area Improvements Ph II \$16,000

EJA.0013 Watermain Renewal \$16,000

Completion of outstanding work started in 2016 in the Riverside Area.

1.6 Phase 1 of 3 Water/ Sewer Pump Station Controls Upgrade \$1,190,000

EJA.3010	Pump Stn, Reservoirs, PRVs, SCADA	\$570,000
EKA.3010	SCADA System Upgrade	<u>620,000</u>
		\$1,190,000

Upgrade or replace existing water and sewer pump station remote terminal units (RTU's) and programmable logic controllers (PLC's) as part of the City's ongoing infrastructure renewal program.

1.7 Gaglardi, Canada Way, And Broadway Bridge \$470,000

EMC.3024 Gaglardi, Canada Way and Broadway Bridge \$470,000

The City is committed to ongoing maintenance and rehabilitation of our roadway structures, which include road bridges and pedestrian bridges. A structures rehabilitation program is in place to address recommendations provided from the bridge inspections program and input from Operations.

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This Bridge Rehabilitation Program involves an expansion joint replacement program and rehabilitation work to the Gaglardi Way Pedestrian Overpass, Canada Way Pedestrian Overpass, and the Broadway Avenue Bridge.

1.8 Future Year Pre Design \$622,000

EKA.3071	2018 Combined Sewer Sep'n & Water	\$442,000
EKA.3076	Genset Replacements	100,000
EJA.3080	PRV Ash Grove & Forest Grove	<u>80,000</u>
		\$622,000

Design money for future year projects.

1.9 Rumble Street Upgrades: McKay to Royal Oak Ph III \$400,000

EJA.3004	Watermain Renewals	\$200,000
EMC.3004	Rumble St, McKay to Royal Oak	<u>200,000</u>
		\$400,000

Transportation Services (Engineering) and Transportation Planning (Planning) have identified road improvements on Rumble Street to provide street beautification, improve the flow of vehicle traffic, and improve bicycle and pedestrian accessibility and safety.

This project is the continuation of street upgrade east of McKay Avenue on Rumble Street. Watermain replacement and storm sewer upgrades are also completed as part of an integrated project, and this funding will enable early design to be prepared for tendering in 2018.

1.10 Wheel Chair Ramp Construction \$250,000

EMC.3088	Sidewalks	\$250,000
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Council indicated a desire to accelerate installation of wheelchair ramps as well as take advantage of existing projects to install wheelchair ramps where they don't currently exist.

1.11 Willingdon Sanitary Pump Station \$25,000

EKA.3032	Willingdon Pump Station	\$25,000
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Preliminary investigation (Feasibility Review) required to define the ultimate pump station requirements to suit existing conditions and capacity requirements for anticipated local growth and re-development, located within the recently acquired ROW, fronting Still Creek Drive.

1.12 Kaymar Pump Station \$75,000

EKA.3035	Kaymar Pump Station	\$75,000
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Preliminary investigation (Feasibility Review) required to define ultimate pump station requirements that will meet capacity requirements for anticipated growth and re-development in the catchment.

1.13 Kingsgate Pump Station \$25,000

EJA.3003 Kingsgate Pump Station \$25,000

Investigate, design and make repairs or upgrades to existing station components.

1.14 City Hall/ Deer Lake Parking Lots \$1,200,000

BAX.0010 City Administrative Complex \$1,200,000

Additional parking is needed to service growth and provide improved customer parking around City Hall and the Deer Lake Complex. The initial funding request in January for \$650,000 was to fund the design of 3 parking lots for the City Hall Complex: Norland/ Canada Way, Deer Lake Avenue/Rowan, and a parkade between RCMP and West Building. The funding being asked for here is to construct the parking lot at the Norland/ Canada Way location.

1.15 Salt Storage Shed \$600,000

ENX.3060 Salt Storage Shed \$600,000

The Laurel Works Yard project requires the ground to be remediated for hydrocarbons and salt prior to any work beginning on building the new yard. In advance of performing the work to clean up the soil, the existing salt pile needs to be relocated out of its existing spot on the north side of the current yard. The salt pile and brine tanks will be relocated to Norland Transfer Site.

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2.0 RECOMMENDATION

It is recommended that Financial Management Committee recommend Council approve the capital expenditure of \$13,436,150 for multi-year Infrastructure capital improvement projects, as outlined in this report and that Financial Management Committee recommend Council authorize the City Solicitor to bring forward a Capital Reserves Bylaw in the amount of \$9,379,790 (inclusive of GST of \$418,740.65), and authorize staff to draw from the Sanitary Sewer Capital Fund the amount of \$3,448,239 (inclusive of GST of \$153,939.25) and the Waterworks Utility Fund the amount of \$1,235,977 (inclusive of GST of \$55,177.57) to finance the capital projects outlined in this report.



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DIRECTOR ENGINEERING

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Copied to: City Manager
Director Finance
City Solicitor